

# ***Hisense***

## **PDP COLOUR TV**

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## **USER'S MANUAL**

# **PDP4220EU**

Part No: IES050723

English

## SAFETY CLASS

This is an IEC safety class I product and must be grounded for safety.

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**Design and specifications are subject to change without notice.**

### Attentions about disposal of the waste apparatus:



- The symbol of the dustbin barred means that this apparatus cannot be put at the rebus with not sorted waste domestic running.
- It is interdict to throw with not sorted waste domestic running, of deposited on the public thoroughfare or at any other place not envisaged to this end. This apparatus contains substances being able to be harmful for the environment.

- The presence of certain substances can have harmful effects on the environment.
- This apparatus profits from a specific treatment of recycling for the re-use of the matters which make it up.
- This apparatus must be thrown only to the places envisaged. Inform near your authority to know the places of electronic collection of waste.
- Your sale point must collect this apparatus against the purchase of a new one for its recycling.
- The selective collection of waste electronics is to reduce the number of substance vermin not recycled and to thus contribute to the environment.

# OSD Language Settings

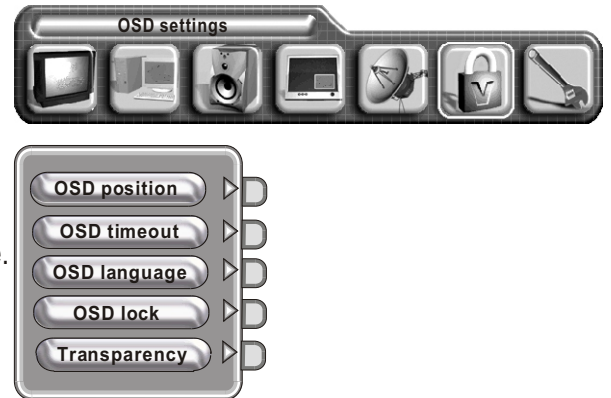
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## Using the OSD settings menu

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### OSD language

- 1) Press the MENU button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item OSD settings.
- 3) Press the [CH+ or CH-] button to select OSD language, and press the [VOL+] button to enter the OSD language.
- 4) Press the [VOL+] button to select the language what you want use.





## CAUTION

RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**CAUTION:** TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER(OR BACK).NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the set.

## IMPORTANT SAFEGUARD

### FIRE AND SHOCK PRECAUTIONS

- Adequate ventilation must be provided to prevent heat build up inside unit. Keep the inside of unit free from foreign objects, such as hairpins, nails, paper, etc. Do not build the set into a bookcase or other enclosures in which it would be poorly ventilated. Do not place it on carpet or a bed as low ventilation bores could become obstructed.
- Do not set liquids, including flower vases and vessels filled with chemicals or water etc., On top of the unit as liquid could get inside the unit. If a hazardous object falls inside the TV set, unplug it immediately and call a qualified technician for removal.
- When placing or moving the TV set, take care to insure that the power cord is fitted into the allocated slot. To avoid damage to the power cord, never allow heavy objects such as the TV set itself to be placed on the power cord. Keep cord away from radiating appliances. Do not allow cord to become knotted or tangled. Do not lengthen the cord. When removing the power plug from the socket, always hold onto the plug, never pull by the cord.
- This TV set shall be connected to a main socket outlet with a protective earthing contact
- The main plug and main switch should be remain readily operable after installation
- No naked flame sources, such as lighted candles, should be placed on the apparatus
- Minimum distances around the apparatus for sufficient ventilation
- The use of apparatus in moderate climates

### WARNING

- Do not remove the back cover of the TV set. Accidental contact with high voltage components could result in electric shock. When internal adjustment is necessary, please contact your distributor.
- If your set produces sound but no picture, or it emits smoke or produces a strange sound or smell, continue operation is dangerous. Immediately turn off power and remove the power plug from the socket and contact your distributor.
- During vacation or other occasions when you will not be using the set for an extended period, remove the power plug from the socket.
- This appliance should not be operated by children or infirm persons without adequate supervision.

# STAND IN STALLATION

## Stand installation

### STAND INSTALLATION

If the TV is to be desktop mounted

- 1.You will Take out stand from accessory box and put aside level flat roof , and then support groupware like fig.1 using six screw A (M5X12) stand groupware. Please ensure screw to be fix closely.
- 2.You will take out TV set and put aside soft flat roof, and then take off two screw B on back cover as fig.2.
- 3.Fixed stand use four screw A according Fig.2 fixing TV set and ensure screw to be fix closely.

### STAND INSTALL SKETCH MAP

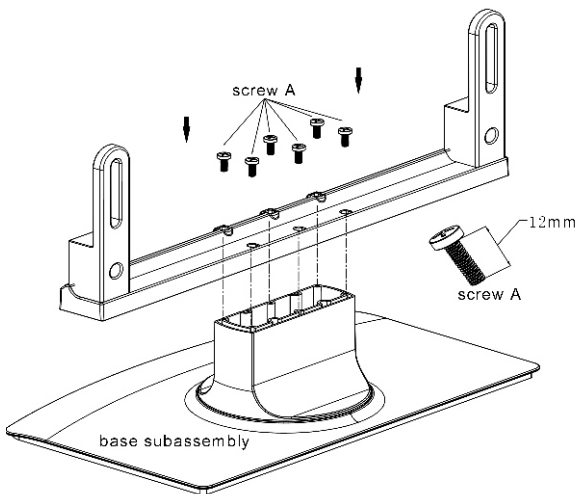


Fig.1

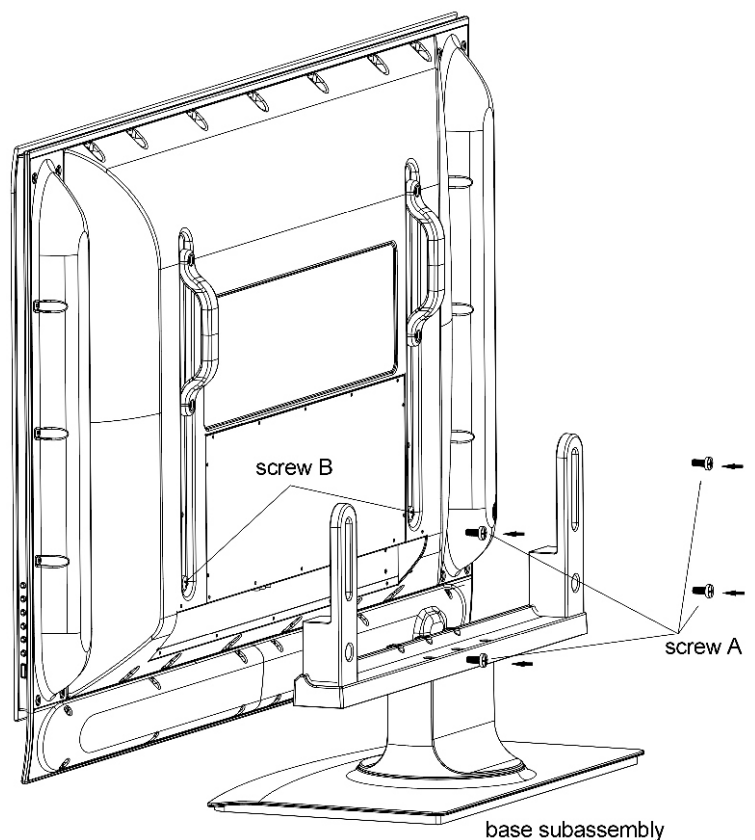


Fig.2

# Preparation for Using your new TV

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## Selecting a location for the TV

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- 1) Place the TV on the floor or on a sturdy platform in a location where light does not directly hit the screen.
- 2) Place the TV far enough from the walls to allow proper ventilation. Inadequate ventilation may cause overheating, which may damage the TV.

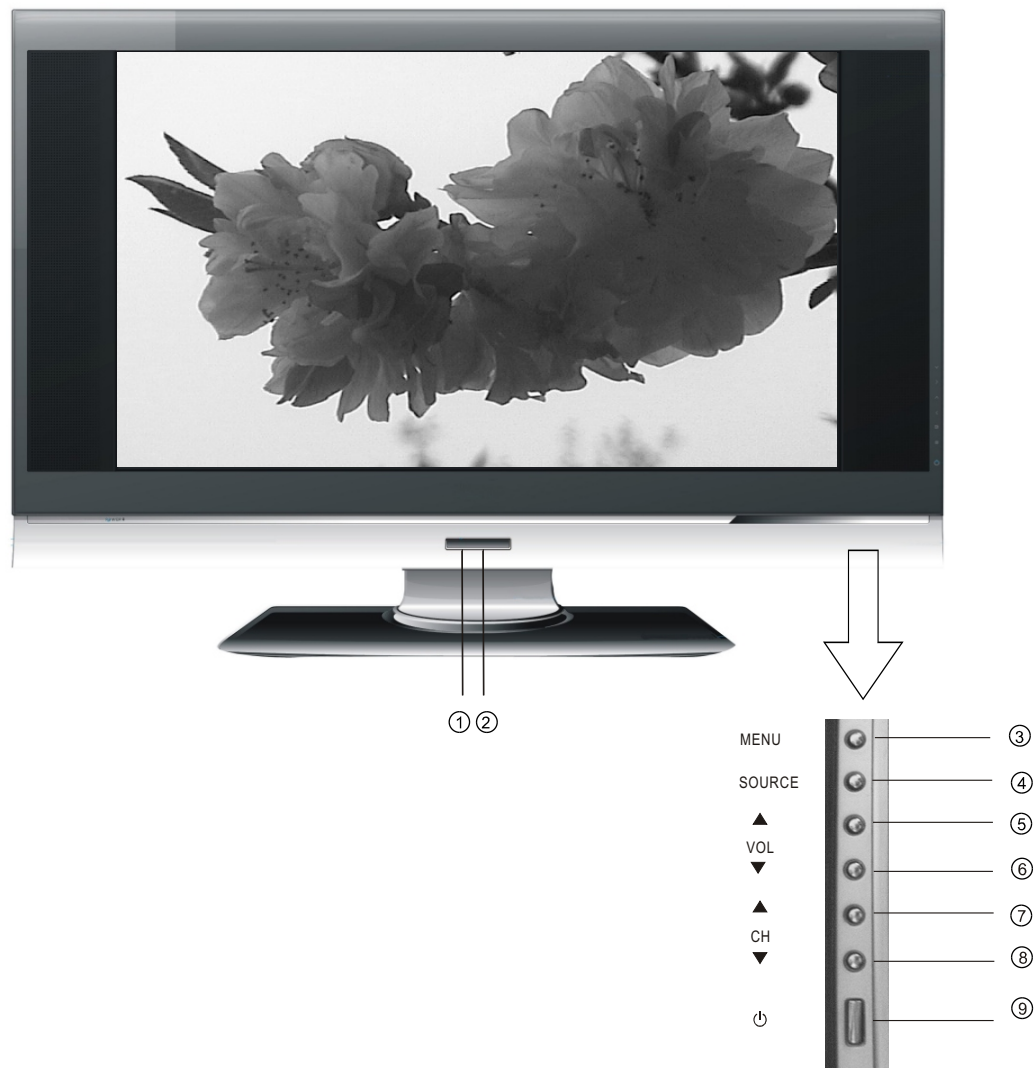
NOTE: Please contact local dealer for wall mounting.

## Learning about your TV

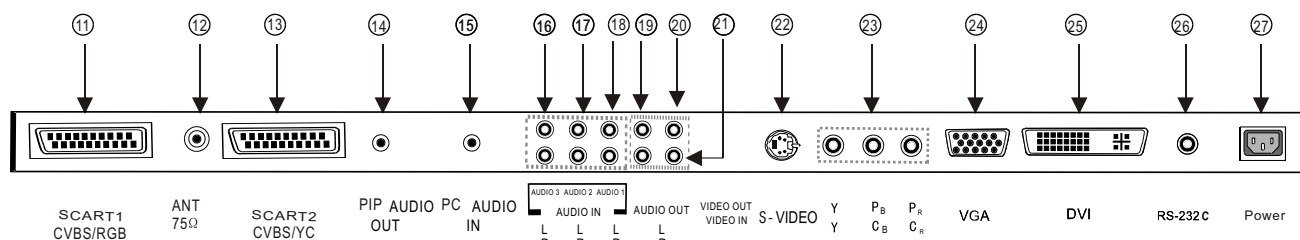
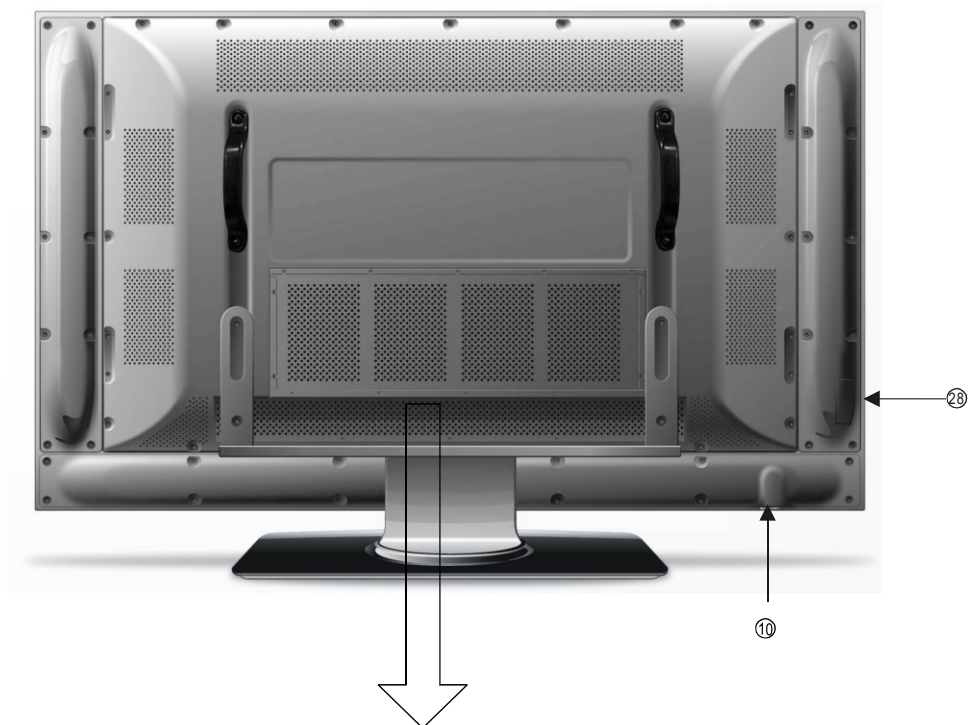
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You can operate your TV by using the buttons on the front panel or the remote control. The terminals on the back panel provide all the connections you will need to connect other equipment to your TV.

### Front Controls



# Preparation for Using your new TV



- |                              |  |  |
|------------------------------|--|--|
| ① Remote Sensing Window      | ① Scart1 connector   | ② Video input  |
| ② Power indicator            | ② CATV antenna input   | ② S-video input  |
| ③ Menu button                | ③ Scart2 connector   | ③ YP <sub>B</sub> P <sub>R</sub> /YC <sub>B</sub> C <sub>R</sub> input |
| ④ Source                     | ④ PIP headphone output   | ④ VGA input  |
| ⑤ Volume up / cursor right   | ⑤ PC/ DVI audio input  | ⑤ DVI input  |
| ⑥ Volume down / cursor left  | ⑥ S-VIDEO AUDIO INPUT  | ⑥ RS232C DEBUG input   |
| ⑦ Channel up / cursor up     | ⑦ YP <sub>B</sub> P <sub>R</sub> /YC <sub>B</sub> C <sub>R</sub> AUDIO input | ⑦ AC Power Socket  |
| ⑧ Channel down / cursor down | ⑧ AV audio input   | ⑧ Spare port   |
| ⑨ Power button (standby)     | ⑨ audio output   |  |
| ⑩ Power Switch (ON/OFF)      | ⑩ VIDEO OUTPUT   |  |

**Note:** The above figures are for reference only, please refer to the actual units to determine their appearance.

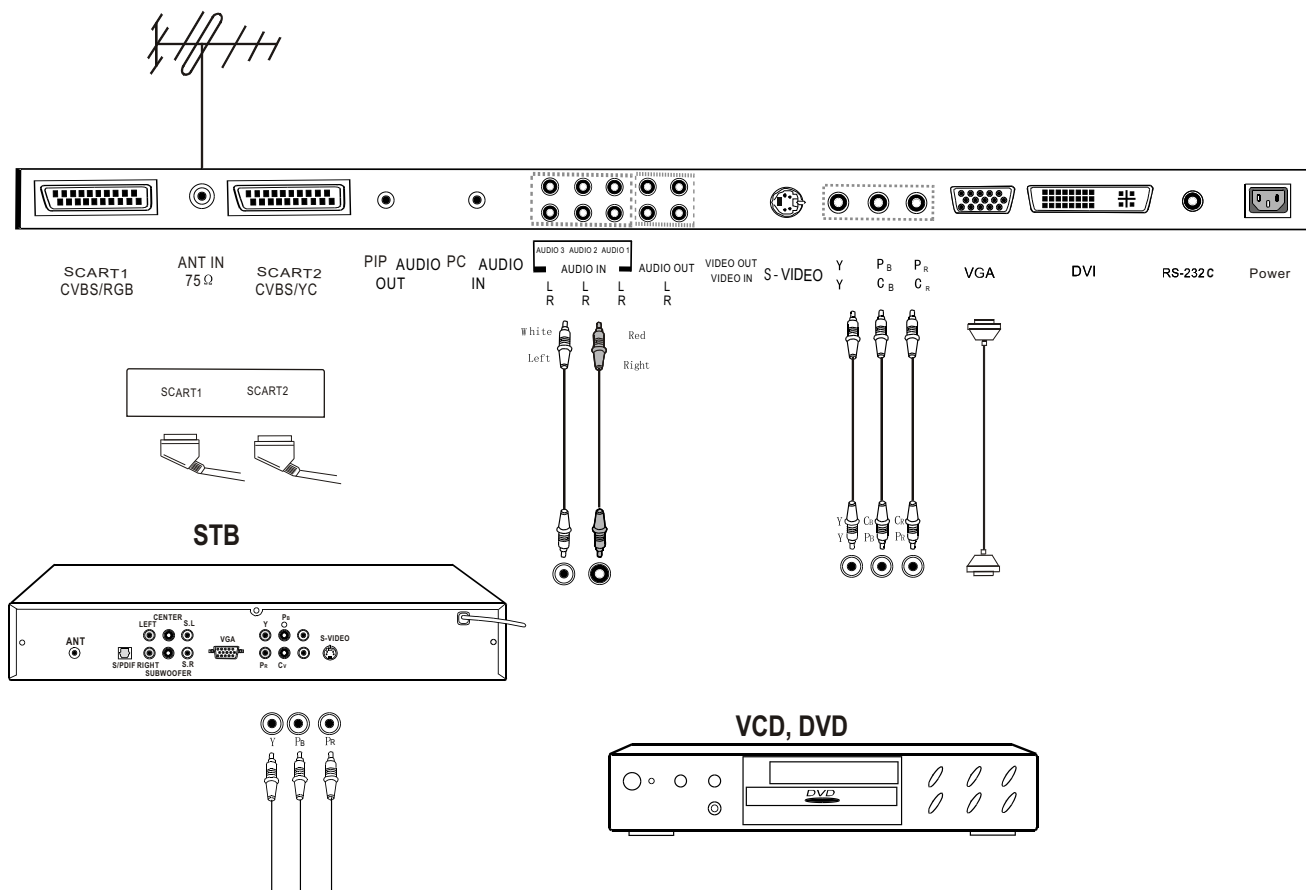
# Preparation for Using your new TV

## Connecting your TV

**Caution:** Do not plug the TV in until you have finished connecting all of your equipment.

### Connecting to A/V equipments

To enjoy its multimedia features, you can connect your TV to A/V equipments such as VCR, DVD, STB, Satellite receiver, Camcorder, Audio amplifier etc., and select signal sources using your remote control. Connect the devices as shown below.



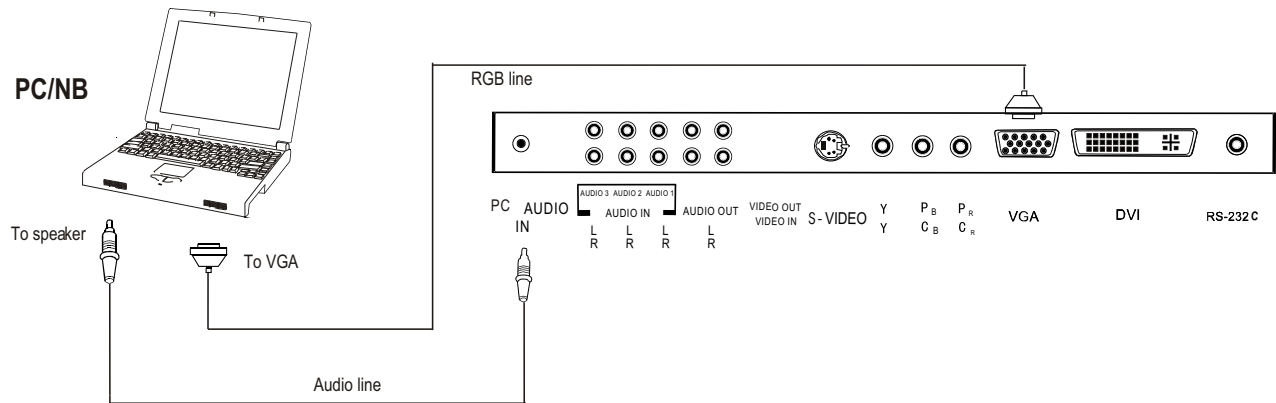
Notes: Modes that YP<sub>B</sub>Pr/YC<sub>B</sub>Cr can display include: 480P/60Hz, 480I/60Hz, 576P/50Hz, 576I/50Hz, 720P/50Hz, 720P/60Hz, 1080I/50Hz, 1080I/60Hz

### Connecting to a Computer

You can use your TV as a monitor/speakers for your computer by connecting through its 15pin standard RGB interface and PC audio interface. Connect the devices as shown below.

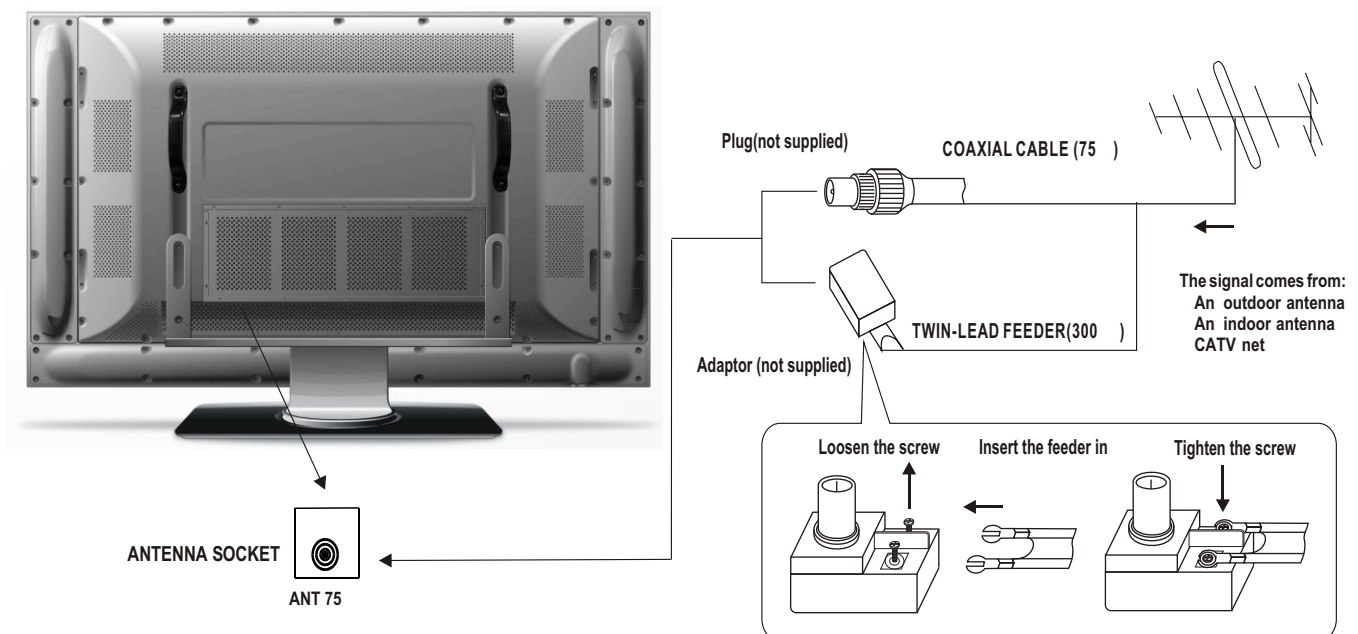


# Preparation for Using your new TV



## Connecting to an antenna

To enjoy the terrestrial signal transmitted by your local TV station, you need an indoor or outdoor antenna (not supplied). Perfect picture quality requires a good signal and generally means that an outdoor antenna must be used. The exact type and location of the antenna will depend on your particular area. Consult your local dealer or service personnel for best advice. If you are a subscriber of your local CATV net, the outdoor or indoor antenna is not needed. Connect the equipments as the following figure.



# Using the remote control

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## Preparing the remote control for use

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### Installing the remote control batteries

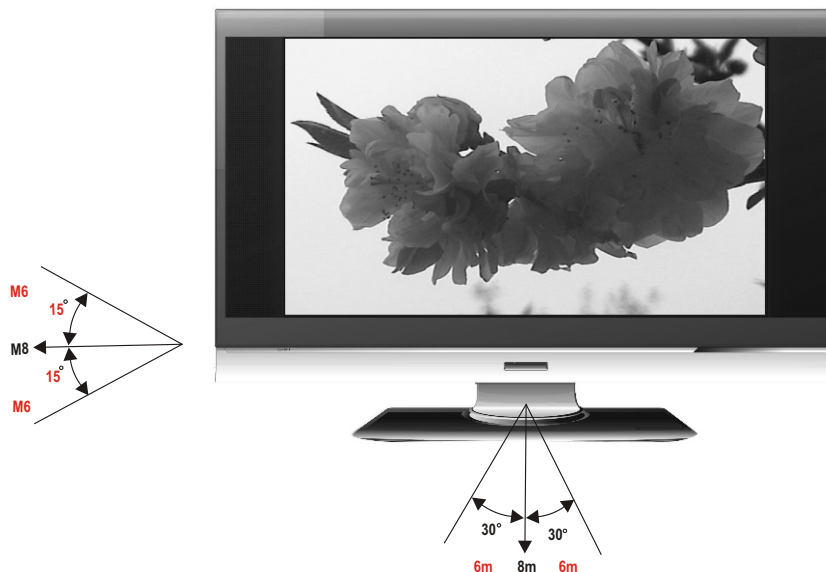
1. Open the battery cover on the back of the remote control.



2. Install two AAA size(1.5V) batteries. Match the + and - signs on the batteries to the signs on the battery compartment.
3. Close the battery cover.

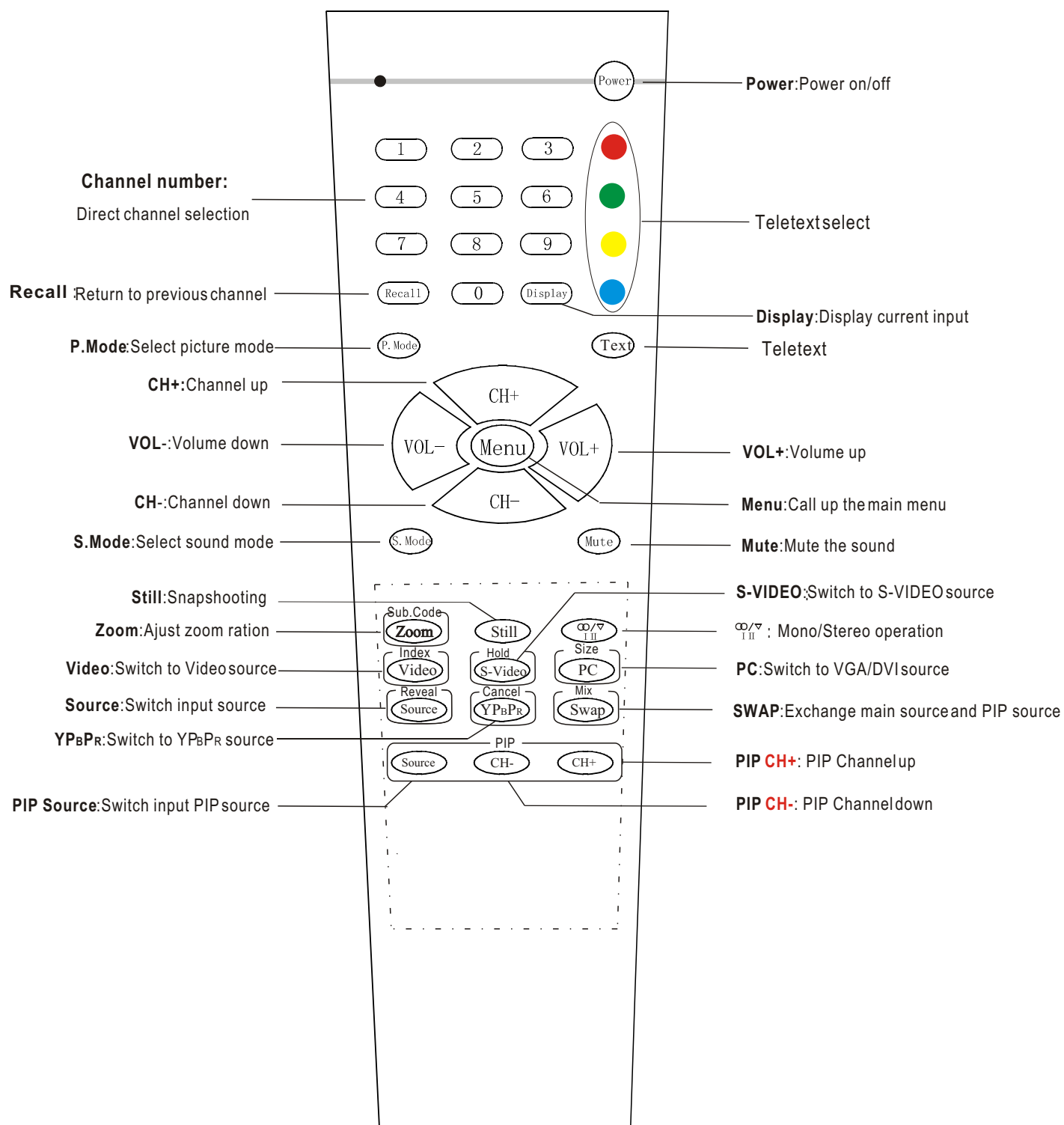
#### Note:

1. Dispose of your batteries in a designated disposal area. Do not throw batteries into fire.
2. Do not mix battery types or combine used batteries with new ones.
3. Remove dead batteries immediately to prevent battery acid from leaking into the battery compartment.
4. If you do not intend to use the remote control for a long time, remove the batteries.
5. The effective range of remote control is suggested in the figure.



# Using the remote control

## Learning about the remote control



# Using the TV features

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## Understanding the TV features

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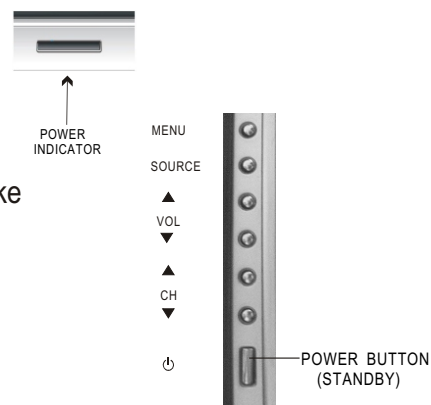
- Multimedia - TV receiver, Video monitor and PC display, all in one.
- Wider viewing angle, 16:9 display - 160 viewing angle at typical value
- Digital display device - truthfully reproducing the images, without distortion or blurring, irrespective of magnetic or geomagnetic effect.
- 200 channels storage
- Sleep timer
- Teletext with 252 pages memory
- NICAM
- Two SCART interface
- Multi-language OSD

## Basic Operations

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### Power ON/OFF

- 1) Connect the TV to power outlet and turn on the power switch, the power indicator will be red and then turn blue. Several seconds later, TV picture will display on the screen.
- 2) Press the Power button on the front control or on the remote control to make the TV on standby. Press the power switch to turn off power.
- 3) If you decide to shut off the TV for a long time, it is recommended that you unplug the power from the outlet.



### Signal source selection

Press [CH+/CH-] button to select TV main source input; press the [SOURCE] button to select TV, YPbPr, Video, S-video, VGA, DVI, scart1, scart2 input; press the [VIDEO] button to select VIDEO input; press the [S-VIDEO] button to select S-VIDEO input; press the [YPbPr] button to select YPbPr input; press the [PC] button to select VGA or DVI input; press the [PIP SOURCE] button to select TV, YPbPr, video, vga, dvi, scart1, scart2 input of pip source input; press [PIP CH+/CH-] button to select TV input; press the [SWAP] button to swap main source input and pip source input.

# Using the TV features

## Select channels by [CH+/CH-]




You can also use [CH+ / CH-] to select channels. [CH+] indicates channel number increase; [CH-] indicates channel number decrease.

## Select channels by numbers

To select a channel : Press the channel numbers in series to select channel directly.

For example, to select channel 120, Press the button 1, and 1 will display on the top right corner of the screen, then press the button 2, 12 will display, press the button zero, you can enjoy the program of channel 120.

NOTE:

- 1) When you changing the channel, the sound state graphics can be displayed below the channel number. There are 3 sound states in this TV. If the sound is mono, the graphics is . If the sound is stereo, the graphics is . If the sound is NICAM dual I/II, the graphics is . There are two symbols at right of the sound state graphics, which indicate preset of picture system and sound system.
- 2) When you changing the channel, the sound of current channel will be firstly changed to stereo or NICAM dual I according to the sound state of current channel. You can press the **I/II** button on the remote control to change current sound type.

## Adjust Volume

When menu is not displayed on the screen, press [VOL+ or VOL-] to adjust the volume.

## Use [Recall] button

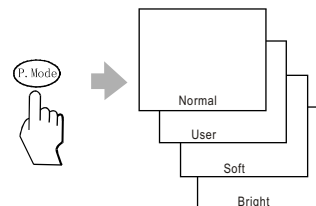
Press the [ Recall ] button repeatedly to alternate between the present channel and the previous channel.

## Display channel number

Press [Display] button to display the present channel number, but it will also disappear 3 seconds after your pressing.

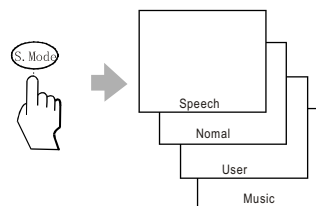
## Select picture modes

You can select the picture mode from among three preset modes and one user-set mode. Press the [ P.mode ] button repeatedly to select the desired picture mode.



## Select sound modes

You can select the sound mode from among three preset modes and one user-set mode. Press the [ S.mode ] button repeatedly to select the desired sound mode.



## Use [Still] button

Press the [ Still ] button to snapshot the present picture, and press again to return to normal watching.

## Use [ Zoom ] button

Press the [ Zoom ] button to adjust the screen aspect ratio and zoom ratio

## Mute function

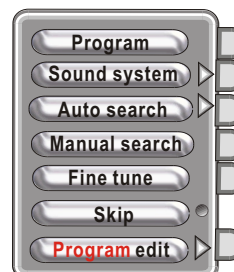
Press [ Mute ] button repeatedly to switch between mute and unmute mode.

# Using the TV features

## Using the TV settings menu

### Program

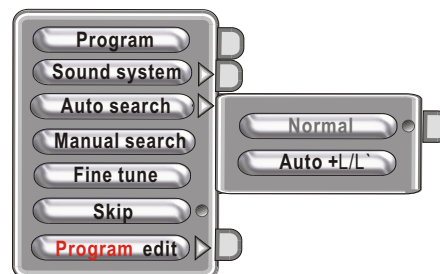
- 1) Press the [MENU] button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item TV settings.
- 3) Press the [CH+ or CH-] button to select Program.
- 4) Press the [VOL+ or VOL-] button to select the present channel.



### Sound system

You can set sound system.

- 1) Press the [MENU] button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item TV settings
- 3) Press the [CH+ or CH-] button to select sound system.and press the [VOL+] button to enter sound system
- 4) Press the [VOL+ ] button to switch among AUTO、 I、 D/K、 B/G、 L/L`



### AUTO-Search

- 1) Press the MENU button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item TV settings.
- 3) Press the [CH+ or CH-] button to select Auto search and press the [ VOL+ ] button to enter Auto search .
- 4) Press the [ VOL+ ] button to switch among Normal and Auto +L/L` .

**Notes:**If you want to select L/L` and else sound system, please select [auto search +L/L`] as right shown.

### Manual search

- 1) Press the MENU button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item TV settings.
- 3) Press the [CH+ or CH-] button to select Manual search.
- 4) Press the [ VOL+ or VOL-] button to start Manual searching.

### Fine tune

- 1) Press the MENU button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item TV settings.
- 3) Press the [CH+ or CH-] button to select Fine tune.
- 4) Press the [ VOL+ or VOL-] button to start Fine searching.

### Skip

- 1) Press the [MENU] button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item TV settings
- 3) Press the [CH+ or CH-] button to select Skip.
- 4) Press the [VOL+] button to skip or unskip the present channel.

NOTE: The 'skipped' channels cannot be accessed by [CH+ or CH-] , but you can access them by digit (direct select) button.

## Using the TV features

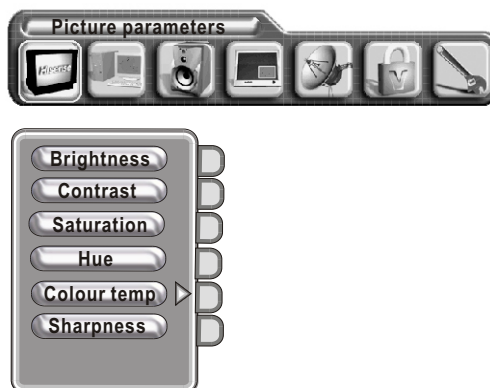
### Program edit

- 1) Press the MENU button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item TV settings.
- 3) Press the [CH+ or CH-] button to select **program** edit.
- 4) Press the [VOL+] button to start **program** edit.
- 5) **Program** edit can carry out program1 and program2 to be interchanged by the button [SWAP], or copy program1 to program2 by the button [COPY].

## Using the Picture menu

### Adjust picture settings

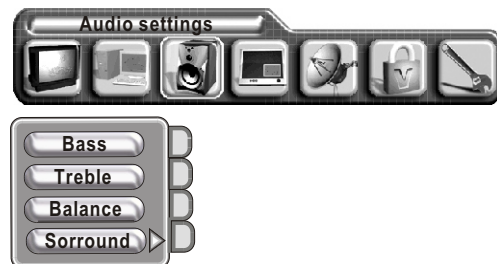
- 1) Press the [MENU] button to enter the main menu.
  - 2) Press the [VOL+ or VOL-] button to select the item Picture Parameters.
  - 3) Press the [CH+ or CH-] button to select the item you want to adjust.
  - 4) Press the [VOL+ or VOL-] button to adjust the level.
  - 5) The adjusted data is stored automatically in the user mode.
- NOTE : The Colour temp is only to adjust in the PC mode.



## Using the Audio settings menu

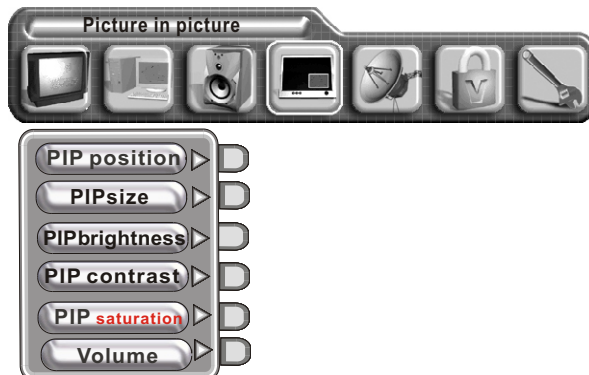
### Adjust audio settings

- 1) Press the [MENU] button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item Audio settings.
- 3) Press the [CH+ or CH-] button to select the item you want to adjust.
- 4) Press the [VOL+ or VOL-] button to adjust the level.
- 5) The adjusted data is stored automatically in the user mode.



## Using the PIP menu

- 1) Press the MENU button to enter the main menu, press the [VOL+ or VOL-] to select the Picture in picture.
- 2) Press the [CH+ or CH-] button to select the PIP size, and press the [VOL+] button to enter the PIP size, Press the [CH+ or CH-] button to select the Off/Small/Medium/Large/PBP.
- 3) Press the [CH+ or CH-] button to select the PIP **saturation**, and press the [VOL+] button to enter the PIP **saturation**, Press the [CH+ or CH-] button to select the pip **saturation**.
- 4) Press the [CH+ or CH-] button to select the PIP position or PIP brightness or PIP contrast, press the [VOL+ or VOL-] button to adjust the value.



- Note: 1) When main picture is TV/ VIDEO/SCART/SVIDEO. pip picture is HDTV/VGA.  
2) When main picture is HDTV/VGA. pip picture is TV/ VIDEO/SCART.

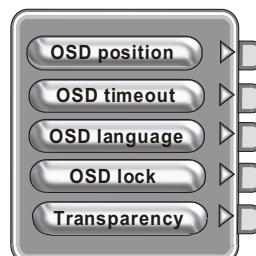
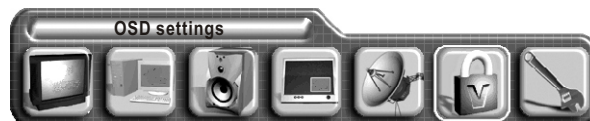


# Using the TV features

## Using the OSD settings menu

### OSD position

- 1) Press the [MENU] button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item OSD settings.
- 3) Press the [CH+ or CH-] button to select OSD position
- 4) Press the [VOL+ or VOL-] button to adjust the OSD POSITION



### OSD timeout

- 1) Press the [MENU] button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item OSD settings.
- 3) Press the [CH+ or CH-] button to select OSD timeout
- 4) Press the [VOL+ or VOL- or CH+ or CH-] button to adjust the OSD TIMEOUT

### OSD language

- 1) Press the MENU button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item OSD settings.
- 3) Press the [CH+ or CH-] button to select OSD language, and press the [VOL+] button to enter the OSD language
- 4) Press the [VOL+] button to select the language what you want use.

### OSD lock

- 1) Press the MENU button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item OSD settings.
- 3) Press the [CH+ or CH-] button to select OSD lock, and press the [VOL+] button to enter the OSD lock
- 4) Press the [VOL+] button to select Yes, then OSD locked.

At that time you press MENU again, the screen will display as right shown.  
Notes: If you want to unlock the OSD, please press [9] when the screen display as right shown.

OSD locked!

### Transparency

- 1) Press the MENU button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item OSD settings
- 3) Press the [CH+ or CH-] button to select Transparency
- 4) Press the [VOL+ or VOL-] button to adjust the ITEM



# Using the TV features

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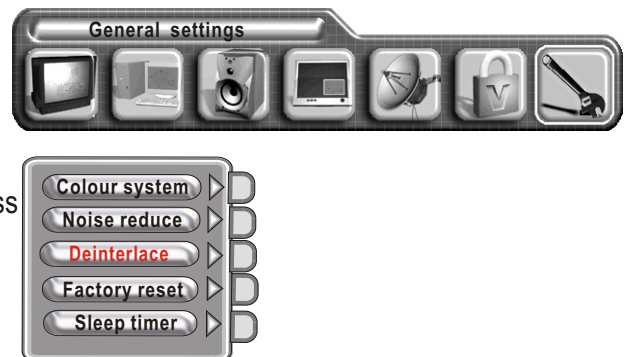
## Using the General settings menu

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### Colour system

You can set colour system.

- 1) Press the [MENU] button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item General settings
- 3) Press the [CH+ or CH-] button to select colour system and press the [VOL+] button to enter colour system
- 4) Press the [VOL+ ] button to switch among Auto, Pal ,Secam.



### Noise reduce

- 1) Press the MENU button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item General settings
- 3) Press the [CH+ or CH-] button to select Noise reduce.
- 4) Press the [VOL+ ] button to enter the Noise reduce.
- 5) Press the [CH+ or CH-] button to select Low / Middle / High .

### Deinterlace

- 1) Press the MENU button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item General settings
- 3) Press the [CH+ or CH-] button to select Deinterlacer
- 4) Press the [VOL+ ] button to enter the Deinterlacer
- 5) Press the [CH+ or CH-] button to select the feature

### Factory reset

- 1) Press the MENU button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item General settings
- 3) Press the [CH+ or CH-] button to select Factory reset.
- 4) Press the [VOL+ ] button to select Yes or No .

### Sleep timer

- 1) Press the MENU button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item General settings
- 3) Press the [CH+ or CH-] button to select Sleep timer
- 4) Press the [VOL+ ] button to adjust the Sleep timer

# Using the TV features

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## Using the PC menu

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- 1) Press the MENU button to enter the main menu.
- 2) Press the [VOL+ or VOL-] button to select the item PC Parameters.
- 3) Press the [CH+ or CH-] button to select the item you want to adjust.

NOTE: 1) The menu is useful only on VGA/DVI and HDTV mode. It is useless in others mode.

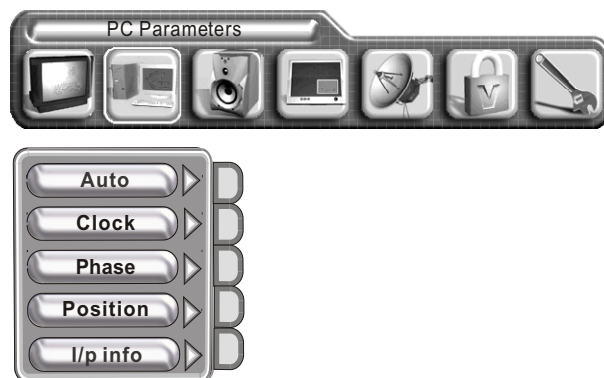
- 2) The button [AUTO] is used to adjust position of picture automatic and it is effective only on **VGA** mode.

The button [POSITION] is used to adjust the position of picture.

The button [CLOCK] and [PHASE] can adjust quality of picture minutely, and they are used less.

- 3) In HDTV mode, Clock can not be select.

- 4) In DVI mode, I/P info can be select only.



## Teletext Operations

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### Selecting teletext mode

Select the channel that is broadcasting the desired Teletext program.

Press [ TEXT ] button and alternate between Teletext mode and normal mode.

Note: All the operations below should be under the Teletext mode except TIME operation.

### Page selection

You can directly input your desired page number by pressing [0-9] buttons.

You can sequentially read pages by pressing [CH+ or CH-] button.

### Hold

Some Teletext information is contained on more than one page, the pages automatically changing after a given reading time.

Press [ S-Video ] button to stop the page changing.

Press [ S-Video ] button again to allow the page to change.

### Reveal

Some Teletext pages contain quiz or questions with hidden answers.

Press the [ Source ] button to see the answers.

Press the [ Source ] button again to hide the answers.

### Cancel

When a page is selected in Teletext mode it may take some time before it becomes available.

Press the [ YPbPr ] button to switch to the TV mode.

When the required page is found, the page number will appear at the top of the TV picture, press the [ YPbPr ] button to return to the selected Teletext page.

Note: You can not change TV program while in this mode.

# Using the TV features

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## Teletext Operations

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### Sub code

Some Teletext pages contain sub page that require you to input the sub code.

Press [ Zoom ] button until \*\*\*|\*\*\*\* is displayed, and enter last four-digit sub code for the sub page you need.

### Mix

You can mix Teletext with TV pictures, which means transparent teletext.

Press [ Swap ] to mix, and press [ Swap ] again to cancel the mixed effect.

### Size (top/bottom/full)

Press the [ PC ] button to display the TOP HALF of the page.

Press again to display the BOTTOM HALF of the page.

Press again to return to a FULL PAGE display.

Note: Changing pages reverts to a FULL PAGE display.

### Index

Teletext index page guides you quickly to your desired page.

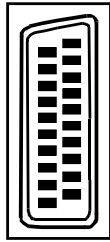
Press [ Vedio ] button to enter index page.

### Fast text

The RED, GREEN, YELLOW & CYAN buttons are used for quick access to colour coded pages transmitted by FAST TEXT broadcast.

# Appendix

## The SCART interface



Also known as Peritel, this standard provides a cheap multi-signal connector to domestic TV and other video equipment.

Arrangement 1 is the original and allows for composite video input/output, RGB inputs and stereo audio input/output.

Arrangement 2 allows for composite video input/output, and stereo audio input/output.

Cation: The output of video and audio are always from turner of R F.

Arrangement 3 allows for composite video input, S-Video inputs, and stereo audio input/output.

TV can auto check aspect ratio in scart.

### Scart Connector Pinout Details

SCART arrangement 1			
Pin	Signal	Signal level	Impedance
1	Audio output B (right)	0.5V rms	<1kohm
2	Audio input B (right)	0.5V rms	>10kohm
3	Audio output A (left)	0.5V rms	<1kohm
4	Ground (audio)	-	-
5	Ground (blue)	-	-
6	Audio input A (left)	0.5V rms	>10kohm
7	Blue input	0.7V	75ohms
8	Function select (AV control)	High (5-12V) - AV mode Mid(5-8V)-Wide-screen Low (0-2V) - TV mode	>10kohm
9	Ground (green)	-	-
10	-	-	-
11	Green input	0.7V	75ohms
12	-	-	-
13	Ground (red)	-	-
14	Ground (blanking)	-	-
15	Red input	0.7V	75ohms
16	RGB switching control	High (1-3V) - RGB Low (0-0.4V) - Composite	75ohms
17	Ground (video input & output)	-	-
18	Ground(RGB Switching Control)	-	-
19	Video output (composite)	1V including sync	75ohms
20	Video input (composite)	1V including sync	75ohms
21	Common ground (shield)	-	-

# Appendix

SCART arrangement 2			
Pin	Signal	Signal level	Impedance
1	Audio output B (right)	0.5V rms	<1kohm
2	Audio input B (right)	0.5V rms	>10kohm
3	Audio output A(left)	0.5V rms	<1kohm
4	Ground (audio)	-	-
5	Ground	-	-
6	Audio input A(left)	0.5V rms	>10kohm
7	-	-	-
8	Function select (AV control)	High (5 - 12V) - AV mode Mid (5-8V) - Wide-screen Low (0-2V) - TV mode	>10kohm
9	Ground	-	-
10	-	-	-
11	-	-	-
12	-	-	-
13	Ground	-	-
14	Ground (blanking)	-	-
15	-	0.3V	75ohms
16	-	-	-
17	Ground	-	-
18	Ground	-	-
19	Video output	1V including sync	75ohms
20	Video input	1V including sync	75ohms
21	Common ground (shield)	-	-

**WARNING:** Do NOT attempt to work on ANY equipment unless you KNOW what you are doing.

**Notes:** *Y/C cannot be displayed in the PIP source.*

## Cleaning and care

**WARNING:** Do not try to remove the cabinet back. Refer servicing to qualified service technicians.

### To clean the TV screen:

- 1) Unplug the TV to avoid possible shock hazard.
- 2) Use a clean cellulose sponge or chamois cloth dampened with a solution of mild detergent and warm water to clean the TV screen and trim. Do not use too much water as water spilled into the cabinet can cause damage to the TV.
- 3) Wipe off any excess moisture with a clean dry cloth.
- 4) Polish the cabinet with a quality furniture polish to maintain the finish and appearance of the cabinet.

**Caution:** Never use strong solvents such as thinner, benzene, or other chemicals on or near the cabinet. These chemicals can damage the finish of the cabinet.

# Appendix

## Troubleshooting

Before calling a service technician, please check the following table for a possible cause of the problem and some solutions.

Symptoms	Possible Solutions
TV will not turn on	<ul style="list-style-type: none"><li>• Make sure the power cord is plugged in, then press [Power].</li><li>• The remote control batteries may be dead. Replace the batteries.</li></ul>
No picture, no sound	<ul style="list-style-type: none"><li>• Check if you have set the off timer.</li><li>• Check the antenna/cable connections.</li><li>• Press [Display] to see if you have select the right signal source.</li></ul>
No sound, picture OK	<ul style="list-style-type: none"><li>• The sound may be muted. Press [ &gt; ] on the remote control or .</li><li>• The station may have broadcast difficulties. Try another channel.</li><li>• Check the speakers cable connections.</li></ul>
Poor sound, picture OK	<ul style="list-style-type: none"><li>• The station may have broadcast difficulties. Try another channel</li><li>• Check the speakers cable connections.</li></ul>
Poor picture, sound OK	<ul style="list-style-type: none"><li>• Check the antenna connections.</li><li>• The station may have broadcast difficulties. Try another channel.</li><li>• Adjust the picture from the menu.</li></ul>
Unable to select a certain channel	<ul style="list-style-type: none"><li>• The channel may be skipped. See SKIP on page 11.</li></ul>
Poor colour or no colour	<ul style="list-style-type: none"><li>• The station may have broadcast difficulties. Try another channel.</li><li>• Adjust the HUE and COLOUR in the menu.</li></ul>
The remote control does not operate	<ul style="list-style-type: none"><li>• There may be an obstruction between the remote control and the remote control sensor.</li><li>• The batteries may be installed with a wrong polarity.</li><li>• The remote control batteries may be dead. Replace the batteries.</li><li>• Check if you have entered Teletext mode. Press [ Text ] to quit.</li></ul>
Abnormal TV picture	<ul style="list-style-type: none"><li>• Maybe TV signal isn't so good, you can try Fine tune to adjust. See page 11</li></ul>

**Customer important notice:** When the TV can not be operationed in some special situation, please unplug the power and restart.

## Specifications

	PDP4220EU
LCD panel	42 inch PDP
Television system	Multi- system(PAL,SECAM)
Channel coverage	VHF-L: E2-S8 VHF-H: S9-S37 UHF: S38-E69
Analog RGB mode	640X480/60Hz,800X600/60Hz,1024X768/60Hz,1280X1024/60Hz
Y P <sub>B</sub> /C <sub>B</sub> P <sub>R</sub> /C <sub>R</sub> mode	480I/60Hz,480P/60Hz,576P/50Hz,720P/50Hz,720P/60Hz, 1080I/50Hz,1080I/60Hz
Resolution	852X480
Contrast	10000:1
Brightness	1500cd/m <sup>2</sup>
Viewing angle	160°(H)/160°(V)
Power source	AC100V--240V, 50/60Hz
Power consumption	280W
Audio output	7W+7W
Connection interface	RF input: 1 CATV RF antenna input VIDEO input: 1 AV input 1 s-video input 1 Y P <sub>B</sub> P <sub>R</sub> input GRAPHIC input: 1 Analog RGB 15pin(VGA) input 1 Digital RGB(DVI-D) input AUDIO input: 1 AV audio 1 PC/ DVI audio 1 S-video audio 1 Y P <sub>B</sub> P <sub>R</sub> audio AUDIO output: 1 audio output 1 PIP audio output Video output 1 video output SCART : SCART1 ( for CVBS, RGB and CANAL+ ) SCART2 ( for CVBS and Y/C ) OTHER: 1 RS232C ( for software updating )
Dimensions	1242mmX750mmX92mm( LXWXH )
Weight	35kg
Supplied accessories	Remote control, AC Power cord, Batteries

Design and specifications are subject to change without notice.

# Appendix

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PDP Wall-mounting Bracket Installation Guide

READ CAREFULLY BEFORE INSTALLATION!

THE INSTALLATION GUIDE SHOULD BE RETAINED FOR FUTURE REFERENCE.

Caution:

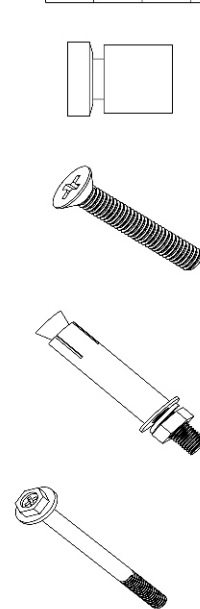
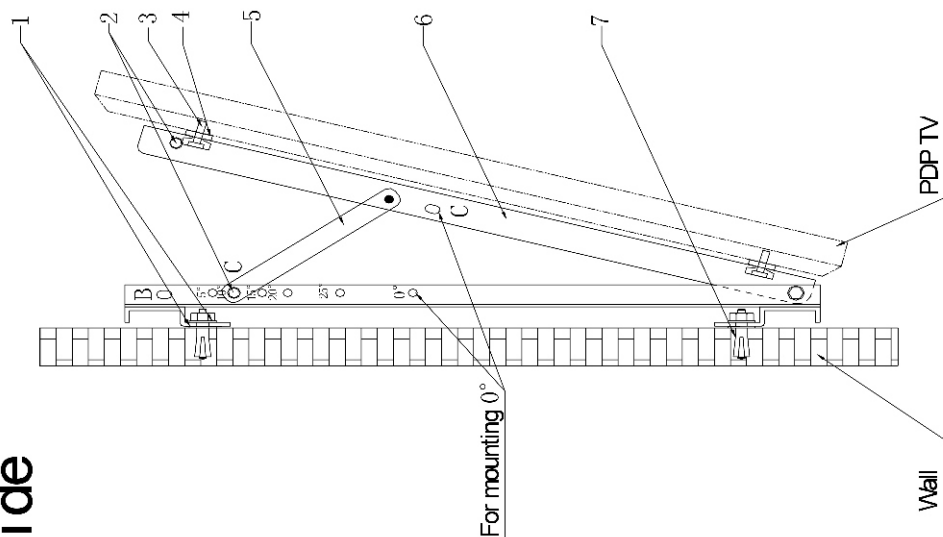
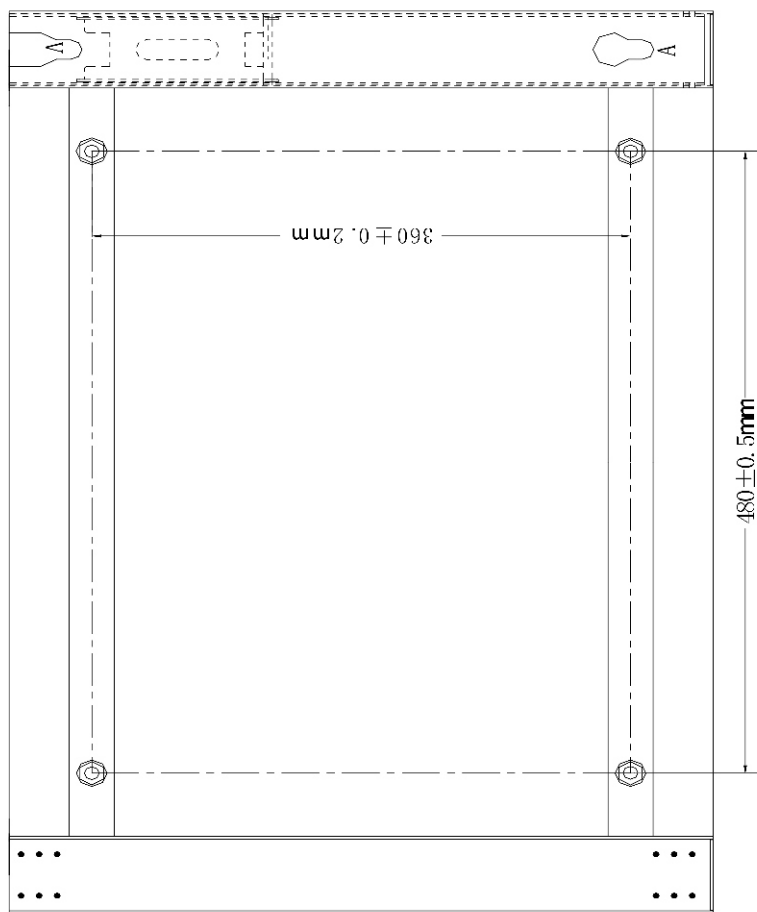
1. Do NOT attempt to install the TV by yourself to avoid mistakes or hazard. Refer all installation to qualified servicing personnel.
2. Do NOT install the TV on a wall aslope or a wall that makes the TV screen sloping over 25° off plumb line. Otherwise, it may cause tumble or injury.
3. Refer all installation to qualified servicing personnel.
4. One must follow the instructions in this guide to correctly install the TV.
5. It requires more than one person to install the TV.
6. Before installation, examine whether the wall conforms to the specifications and whether the supplied parts can be fixed on it. The wall for mounting should sustain the weight of TV and speakers, e.g. cement wall or brick wall. Do NOT attempt to install the TV on a flexible wall such as sand wall or plaster wall, unless the bolt are fixed on an area with standard building rigidity which sustains the weight of the TV and speakers. If the rigidity of the wall can not be measured, every mounting hole should sustain a frontal force of over 100N and a shearing force of over 200N.
7. Use the specified electric drill and drill bit for drilling. The drilling holes should conform to the specifications.
8. To avoid fire and shock, do NOT place radiator, heater or humidifier below the installed TV.
9. The TV should be kept away from moisture, sensors and power line. The TV should be kept away from impact and vibration.
10. Ensure that the power supply be disconnected before installation for fear of fire and shock.

## Wall-mounting Installation Steps:

1. Take out the brackets from the package, and check if there are serious defects (e.g. infirm juncture).
2. Adjust the bracket to the desired angle. Use the bolts 2 to adjust the angle by meeting holes of column beam 8 and holes of lever 5
3. Drill locating holes in the specified dimension in a vertical wall of concrete or brick. The hole size should be 11mm. The hole depth should accommodate the expanding tube of the bolt.
4. Fix the bolts into the drilled holes in step 3, and then cover each bolt with a metal washer. Meet the four mounting holes in the bracket with the four bolts in the wall, cover each bolt with a metal washer, and then fasten with a screw nut. Check its rigidity by pulling the bracket.
5. Fix the fixture disk 4 to the back cover of the TV using four bolt 3 (M8X45).
6. Wall-mount the TV by putting the four fixture disks into the four mounting holes A.
7. If the customer is not satisfied with the mounting angle, take down the TV and adjust the angle before re-mounting.
8. After wall-mounting the TV, use bolts 2 to fix the fixture disks for fear of accidental slide.



# Wall-mounting Quick Guide



Bolt M6x70 (black) Expanding Bolt Bolt M8x15 (black) Fixture disk

No.	name	Material	Quantity	No.	name	Material	Quantity
1	Plain Washer	Steel	8	5	Lever	Iron	2
2	Bolt M6x70 (black)	Steel	4	6	Vertical Beam	Iron	2
3	Bolt M8x45 (black)	Steel	4	7	Expanding Bolt	Steel	4
4	Fixture disk	Nylon	4				